

**Abstract Of The Disclosure**

A system for subjective evaluation of a  
5 vehicle design within a virtual environment includes  
a scaleable physical property representative of the  
vehicle design, such that the physical property is  
adjusted according to a scale ratio for an evaluator  
of the vehicle design. The system also includes a  
10 computer system for digitally creating a virtual  
environment having a virtual human immersed within.  
The system further includes a motion capture system  
for sensing a motion of the evaluator and  
communicating the sensed motion of the evaluator to  
15 the computer system and a virtual reality display  
mechanism operatively communicating with the computer  
system, for providing the evaluator a view of the  
virtual environment while evaluating the vehicle  
design. The method includes the steps of preparing  
20 an evaluator of a vehicle design for immersion as a  
virtual human in the virtual environment and  
determining a scale ratio for the evaluator. The  
method also includes the steps of preparing an  
adjustable property using the vehicle design and the

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scale ratio. The method further includes the steps  
of growing the virtual human within the virtual  
environment to virtually represent a scaled  
evaluator, and aligning the virtual human in the  
5 virtual environment with the evaluator and the  
property. The method still further includes the  
steps of performing the evaluation of the vehicle  
design by the evaluator and using the evaluation of  
the vehicle design in the design of the vehicle.

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